

Substitute for Form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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**Complete if Known**

Application Number	10/072,511
Filing Date	February 5, 2002
First Named Inventor:	Seok-Hyun Yun
Art Unit	2882
Examiner Name	Suchecki, Krystyna

Sheet	1	of	2	Attorney Docket Number	5489P001
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**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
SH	US-	4,068,191	1/10/1978	Zemon et al.	
SH	US-	4,781,425	11/1/1988	Risk et al.	
SH	US-	4,828,350	5/9/1989	Kim et al.	
SH	US-	4,832,437	5/23/1989	Kim et al.	
SH	US-	4,915,468	4/10/1990	Kim et al.	
SH	US-	4,971,417	11/20/1990	Krinsky et al.	
SH	US-	5,007,705	4/16/1991	Morey et al.	
SH	US-	5,708,736	1/13/1998	Steinblatt	
SH	US-	6,021,237	2/1/2000	Kim et al.	
SH	US-	6,151,157	11/21/2000	Ball et al.	
SH	US-	6,151,427	11/21/2000	Satorius	
SH	US-	6,233,379 B1	05/15/2001	Kim et al.	
SH	US-	6,253,002 B1	6/26/2001	Kim et al.	
SH	US-	6,343,165 B1	1/29/2002	Kim et al.	
SH	US-	6,510,261 B2	1/21/2003	Sorin et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

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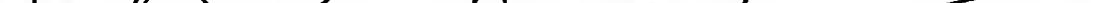
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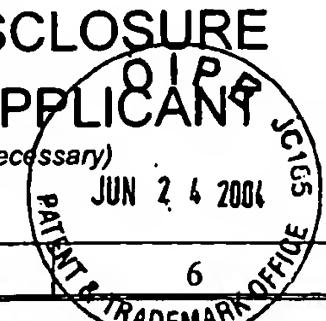
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Sheet

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of

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First Named Inventor:	Seok-Hyun Yun
Art Unit	2882
Examiner Name	Suchecki, Krystyna
Attorney Docket Number	5489P001

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WD		J.N. Blake, B.Y. Kim, H.E. Engan, and H.J. Shaw, "Analysis of intermodal coupling in a two-mode fiber with periodic microbends," Optics Letters, Vol. 12, No. 4, pp. 281-283 (April 1987).	
WD		B.Y. Kim, J. N. Blake, H.E. Engan, and H.J. Shaw, "Acousto-optic frequency-shifting in two-mode optical fibers," OFS '86, Tokyo, Japan (October 8-10, 1986).	
WD		H.E. Engan, B.Y. Kim, J.N. Blake, and H.J. Shaw, "Propagation and optical interaction of guided acoustic waves in two-mode optical fibers," Journal of Lightwave Technology, Vol. 6, No. 3, pp. 428-436 (March 1988).	
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WD		D. Ostling and H.E. Engan, "Spectral flattening by an all-fiber acousto-optic tunable filter," 1995 IEEE Ultrasonics Symposium, pp. 837-840.	
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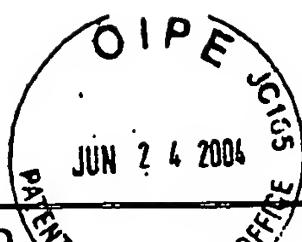
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First Named Inventor:	Seok-Hyun Yun
Art Unit	2882
Examiner Name	Suchecki, Krystyna

Sheet	2	of	6	Attorney Docket Number	5489P001
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## NON PATENT LITERATURE DOCUMENTS

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WD		H.E. Engan, "Acoustic torsional waves used for coupling between optical polarization modes in optical fibers," 1996 IEEE Ultrasonics Symposium, pp. 799-802.	
WD		D. Ostling and H.E. Engan, "Acousto-optic tunable filters in two-mode fibers," Optical Fiber Technology, Vol. 3, pp. 177-183 (1997).	
WD		B. Langli, P.G. Sinha, and K. Blotekjaer, "Acousto-Optic Mode Coupling of Partially Coherent Light in Two-Mode Fibers," Optical Review, Vol. 4, No. 1A, pp. 121-129, Jan./Feb. 1997.	
WD		T.A. Birks, P.S.J. Russell, and C.N. Pannell, "Low power acousto-optic device based on a tapered single-mode fiber," IEEE Photonics Technology Lett., Vol. 6, No. 6, pp. 725-727 (June 1994).	
WD		M. Berwick and D.A. Jackson, "Coaxial optical-fiber frequency shifter," Optics Letters, Vol. 17, No. 4, pp. 270-272 (February 15, 1992).	
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WD		Yijiang Chen, "Acousto-optic frequency shifter using coaxial fibers," Optical and Quant. Electronics, Vol. 21, pp. 491-498 (1989).	
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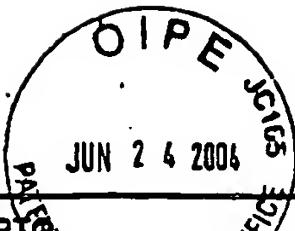
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WY		C.N. Pannell, R.P. Tatam, J.D.C. Jones, and D.A. Jackson, "Optical frequency shifter using linearly birefringent monomode fibre," Electronics Letters, Vol. 23, No. 16, pp. 847-848 (July 30, 1987).	
WY		K. Nosu, H.F. Taylor, S.C. Rashleigh, and J.F. Weller, "Acousto-optic phase modulator and frequency shifter for single-mode fibers," 1983 Ultrasonics Symposium, pp. 476-481 (1983).	
WY		B.Y. Kim, et al., "All-Fiber Acousto-Optic Frequency Shifter," Optics Letters, Vol. 11, No. 6, pp. 389-391 (June 1986).	
WY		H.E. Engan, et al., "Propagation and Optical Interaction of Guided Acoustic Waves in Two-Mode Optical Fibre," IEEE Journal of Lightwave Technology, Vol. 6, No. 3, pp. 428-436 (March 1988).	
WY		S.H. Yun, et al., "All-fiber Tunable Filter and Laser Based on Two-Mode Fiber," Optics Letters, Vol. 21, No. 1, pp. 27-29 (January 1996).	
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WY		H.S. Kim, et al., "All-fiber acousto-optic tunable notch filter with electronically controllable spectral profile," Optics Letters, Vol. 22, No. 19, pp. 1476-1478 (October 1, 1997).	
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WY		S.H. Yun, et al., "Dynamic Erbium-Doped Fiber Amplifier Based on Active Gain Flattening with Fiber Acoustooptic Tunable Filters," IEEE Photonics Technology Letters, Vol. 11, No. 10, pp. 1229-1231 (October 1999).	
WY		H.E. Engan, et al., "Optical Frequency Shifting in Two-Mode Optical Fibers by Flexural Acoustic Waves," IEEE 1986 Ultrasonics Symposium, pp. 435-438 (November 17-19, 1986).	

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WD		S.H. Yun, et al., "Electronically Tunable Fiber Laser Using All-Fiber Acousto-Optic Tunable Filter," IOOC '95, (10th International Conference on Integrated Optics and Optical Fibre Communication), Hong Kong, pp. 22-23 (June 26-30, 1995).	
WD		M.Y. Jeon, et al., "Harmonically Mode-Locked Fiber Using an All-Fiber Acousto-Optic Tunable Filter," OFC '97, Dallas, Texas, pp. 166-167 (February 16-22, 1997).	
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WD		H.S. Kim, et al., "Dynamic gain equalization of erbium-doped filter amplifier with all-fiber-acousto-optic tunable filters," OFC '98, WG4, San Jose, California, USA, pp. 136-138 (February 22-27, 1998).	
WD		Y.W. Koh, et al., "Broadband Polarization-Insensitive All-Fiber Acousto-Optic Modulator," OFC '98, WM50, San Jose, California, USA, Vol. 2, pp. 239-240 (February 22-27, 1998).	
WD		K. Oh, et al., "Characterization of elliptic core fiber acousto-optic tunable filters operated in the single mode and the multi-mode range," OFC '98, WM59, San Jose, California, USA, Vol. 2, pp. 250-251 (1998).	
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WD		B.Y. Kim, "Acousto-Optic Components for WDM Application," IEEE/LEOS Summer Topical Meetings, San Diego, California, USA, pp. 47-48, Invited Papers (July 26-28, 1999).	
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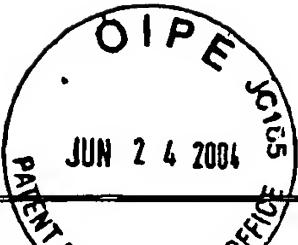
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HD		D.O. Culverhouse, et al., "Four port fused taper acousto-optic device using standard single mode telecommunication fiber," Electronic Letters, Vol. 31, No. 15, pp. 1279-1280 (July 20, 1995).	
HD		D.O. Culverhouse, et al., "Low-loss all-fiber acousto-optic tunable filter," Optics Letters, Vol. 22, No. 2, pp. 96-98 (January 15, 1997).	
HD		T.E. Dimmick, et al., "Compact all-fiber acoustooptic tunable filters with small bandwidth-length product," IEEE Photonics Technology Letters, Vol. 12, No. 9, pp. 1210-1212 (September 2000).	
HD		G. Kakarantzas, et al., "High strain-induced wavelength tunability in tapered fibre acousto-optic filters," Electronics Letters, Vol. 36, No. 14, pp. 1187-1188 (July 6, 2000).	
HD		T.E. Dimmick, et al., "Narrow-band acousto-optic tunable filter fabricated from highly uniform tapered optical fiber," Optical Fiber Communication Conference 2000, Vol. 37, pp. 25-27 (March 7-10, 2000).	
HD		T.A. Birks, et al., "Control of bandwidth in fiber acousto-optic tunable filters and other single-mode null coupler devices," CLEO, 1997, Vol. 11, pp. 444-445 (1997).	
HD		T.A. Birks, et al., "The acousto-optic effect in single-mode fiber tapers and couplers," Journal of Lightwave Technology, Vol. 14, No. 11, pp. 2519-2529 (November 1996).	
HD		D.O. Culverhouse, et al., "All-fibre Acousto-optic Tunable Filter Based on a Null Coupler," Optical Communication 1996, ECOC '96, Vol. 3, pp. 317-320 (September 15-19, 1996).	
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HD		F. Tian, et al., "Interchannel Interference in Multiwavelength Operation of Integrated Acousto-Optical Filters and Switches," Journal of Lightwave Technology, Vol. 13, No. 6, pp. 1146-1154 (1995).	
HD		T.E. Dimmick, D.A. Satorius, and G.L. Burdge, "All-Fiber Acousto-Optic Tunable Bandpass Filter," Optical Society of America 2000, 3 pages total (2000).	

Examiner Signature		Date Considered	88/02/04
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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<p>Substitute for Form 1449/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p>				<p><b>Complete if Known</b></p> <table border="1"> <tr> <td>Application Number</td> <td>10/072,511</td> </tr> <tr> <td>Filing Date</td> <td>February 5, 2002</td> </tr> <tr> <td>First Named Inventor:</td> <td>Seok-Hyun Yun</td> </tr> <tr> <td>Art Unit</td> <td>2882</td> </tr> <tr> <td>Examiner Name</td> <td>Suchecki, Krystyna</td> </tr> <tr> <td>Attorney Docket Number</td> <td>S489P001</td> </tr> </table>		Application Number	10/072,511	Filing Date	February 5, 2002	First Named Inventor:	Seok-Hyun Yun	Art Unit	2882	Examiner Name	Suchecki, Krystyna	Attorney Docket Number	S489P001
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Sheet	6	of	6														

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
<i>WJ</i>		M.Y. Jeon, et al., "An Electronically Wavelength-Tunable Mode-Locked Fiber Laser Using an All-Fiber Acousto-Optic Tunable Filter," Proceedings of the 10th International Conference, Del Coronado, CA, pp. 20-21 (May 28 - June 1, 1996)	
<i>WJ</i>		H.S. Kim, S.H. Yun, I.K. Hwang, and B.Y. Kim, "Single-mode-fiber acousto-optic tunable notch filter with variable spectral profile," Conference on Optical Fiber Communications, 1997 OSA Technical Digital Series, Vol. 6, pp. 395-398 (February 16-21, 1997)	

Examiner Signature		Date Considered	08/02/04
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